

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND the claims in accordance with the following:

1. (Currently Amended) A computer-implemented search processing method, comprising:

searching a predetermined document group according to a first search condition specified by a user to extract data of a plurality of documents as extracted documents from a storage that stores said predetermined document group;

first transforming said extracted data of said plurality of documents into first display information that indicates said extracted data of said plurality of documents ~~to said user in a first display form that includes~~ including one or more ~~generated-displayed display items that are selectable within the first display form by said user by selecting a display region of the one or more display items within the first display form for a follow up search process using a second search condition, are different from menu items and are,~~ which is generated from said extracted data of said plurality of documents, ~~and selectable by said user by selecting a displayed region of the one or more displayed items for a follow up search process using a second search condition,~~ and outputting the transformed first display information in the first display form;

receiving from said user designation of a second display form different from said first display form;

extracting data of documents corresponding to said selected generated-display item from said storage and/or from said extracted data of said plurality of documents; and

second transforming said extracted data of said documents corresponding to said selected generated-display item as extracted selected data into second display information that indicates said extracted selected data to said user in a second user designated display form that includes one or more generated-displayed items selectable by said user by selecting a displayed region of the one or more displayed items for a follow up search process using a third search condition, and outputting the transformed information in the second user designated display form, wherein said first and second display forms are selectable from display forms comprising:

a first form as a document map showing indications of the extracted documents that have been classified by used words in said extracted documents;

a second form as a document flow showing indications of said extracted documents, and segments between the indications, each said segment representing a degree of relevancy between said extracted documents, that is calculated by used words in said extracted documents;

a third form showing a graph representing a result obtained by classifying and aggregating said extracted documents based on used words in said extracted documents;

a fourth form as a skeleton map showing used words in said extracted documents and segments representing a degree of relevancy among said used words;

a fifth form as an anchor map showing first indications of document groups, second indications of used words in said extracted documents, and segments between said first indications and said second indications, said document group being composed of said extracted documents associated by a specific matter, and each of said segments representing a degree of relevancy between said document group and said used word.

2. (Cancelled)

3. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said first transforming comprises:

dividing said extracted documents into clusters based upon said extracted data of said extracted documents;

extracting second data to be displayed from said extracted data of said extracted documents, wherein a type of the extracted second data is predefined for said first display form; and

generating, for each said cluster, information to display the extracted second data as the one or more generated-selectable displayed items to be utilized in said follow up search process using said second search condition.

4. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said first transforming comprises:

calculating a degree of relevancy between said extracted documents based upon said extracted data of said extracted documents;

extracting, for each extracted document, a first data item to be displayed from said

extracted data of said extracted documents, wherein a type of said extracted first data item is predefined for said first display form; and

generating information to display the extracted first data items as the one or more generated-selectable displayed items to be utilized in said follow up search process using said second search condition, and a segment that connects between said extracted first data items and represents the calculated degree of relevancy between said extracted documents corresponding to said extracted first data items.

5. (Previously presented) The computer-implemented search processing method as set forth in claim 1, wherein said first transforming comprises:

dividing said extracted documents into classes based on used words included in said extracted data of said extracted documents, and counting a number of documents in each said class based on a specific matter predefined for said first display form; and

generating information to display the counting result.

6. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said first transforming comprises:

calculating a degree of relevancy between used words included in said extracted data of said extracted documents; and

generating information to display said used words as the one or more generated selectable displayed items to be utilized in said follow up search process using said second search condition, and a segment that connects between said used words and represents the calculated degree of relevancy between said used words.

7. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said first transforming comprises:

relating said extracted documents into document groups based on a specific matter predefined for said first display form;

calculating a degree of relevancy between said document group and a used word included in said extracted data of said extracted documents; and

generating information to display said document groups by said data of said specific matter, and the calculated degree of relevancy between said document group and said used word by a segment connecting between said document group and said used word, wherein said document group and said used word as the one or more generated-selectable displayed items

are to be utilized in said follow up search process using said second search condition.

8. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said second transforming comprises:

dividing said documents corresponding to said selected generated-display item into clusters based upon said data of said documents corresponding to said selected generated display item;

extracting third data to be displayed from said data of said documents corresponding to said selected generated-display item, wherein a type of the extracted third data is predefined for said second user designated display form; and

generating, for each said cluster, information to display the extracted third data as the one or more generated-selectable displayed items to be utilized in said follow up search process using said third search condition.

9. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said second transforming comprises:

calculating a degree of relevancy between said documents corresponding to said selected generated-display item based upon said data of said documents corresponding to said selected generated-display item;

extracting, for each of said documents corresponding to said selected generated-display item, a second data item to be displayed from said data of said documents corresponding to said selected generated-display item, wherein a type of said extracted second data item is predefined for said second display form; and

generating information to display the extracted second data items as the one or more generated-selectable displayed items to be utilized in said follow up search process using said third search condition, and a segment that connects between said extracted second data items and represents the calculated degree of relevancy between said documents corresponding to said extracted second data item.

10. (Previously presented) The computer-implemented search processing method as set forth in claim 1, wherein said second transforming comprises:

dividing said documents corresponding to said selected generated-display item into classes based on used words included in said data of said documents corresponding to said selected generated-display item, and counting a number of documents in each said class based

on a specific matter predefined for said second display form; and
generating information to display the counting result.

11. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said second transforming comprises:

calculating a degree of relevancy between used words included in said extracted data of said documents corresponding to said selected generated-display item; and

generating information to display said used words as the one or more generated selectable displayed items to be utilized in said follow up search process using said third search condition, and a segment that connects between said used words and represents the calculated degree of relevancy between said used words.

12. (currently amended) The computer-implemented search processing method as set forth in claim 1, wherein said second transforming comprises:

categorizing said documents corresponding to said selected generated-display item into document groups based on a specific matter predefined for said second display form;

calculating a degree of relevancy between said document group and a used word included in said data of said documents corresponding to said selected generated-display item; and

generating information to display said document groups by said data of said specific matter, and the calculated degree of relevancy between said document group and said used word by a segment connecting between said document group and said used word, wherein said document group and said used word as the one or more generated-selectable displayed items are to be utilized in said follow up search process using said second search condition.

13. (Previously Presented) The computer-implemented search processing method as set forth in claim 1, wherein a document included in said predetermined document group is a patent document, and said display item is either of bibliographic information of said patent document and a used word in said patent document.

14. (Previously Presented) The computer-implemented search processing method as set forth in claim 1, wherein at least either of said first and second transformings comprises specifying a display program corresponding to a display form, and generating information for said display program.

15. (Previously Presented) The computer-implemented search processing method as set forth in claim 1, wherein at least either of said first and second display forms is an arbitrary combination of predefined display forms.

16. (currently amended) A non-transitory computer readable medium storing instructions being executable by a processor to perform operations comprising:

searching a predetermined document group according to a first search condition specified by a user to extract data of a plurality of documents as extracted documents from a storage that stores said predetermined document group;

first transforming said extracted data of said plurality of documents into first display information that indicates said extracted data of said plurality of documents to said user in a first display form that includes including one or more generated display items that are selectable within the first display form by said user by selecting a display region of the one or more display items within the first display form for a follow up search process using a second search condition, are different from menu items and are, which is generated from said extracted data of said plurality of documents, ~~and selectable by said user by selecting a displayed region of the one or more displayed items for in a follow up search process using a second search condition,~~ and outputting the ~~transformed~~ first display information in the first display form;

receiving from said user designation of a second display form different from said first display form;

extracting data of documents corresponding to said selected generated display item from said storage and/or from said extracted data of said plurality of documents; and

second transforming said extracted data of said documents corresponding to said selected generated display item as extracted selected data into second display information that indicates said extracted selected data of to said user in a second user designated display form that includes one or more generated displayed items selectable by said user by selecting a displayed region of the one or more displayed items for a follow up search process using a third search condition, and outputting the second transformed information in the second user designated display form;

wherein said first and second display forms are selectable from display forms comprising:

a first form as a document map showing indications of the extracted documents that have been classified by used words in said extracted documents,

a second form as a document flow showing indications of said extracted

documents, and segments between the indications, each said segment representing a degree of relevancy between said extracted documents, that is calculated by used words in said extracted documents;

a third form showing a graph representing a result obtained by classifying and aggregating said extracted documents based on used words in said extracted documents;

a fourth form as a skeleton map showing used words in said extracted documents and segments representing a degree of relevancy among said used words;

a fifth form as an anchor map showing first indications of document groups, second indications of used words in said extracted documents, and segments between said first indications and said second indications, said document group being composed of said extracted documents associated by a specific matter, and each of said segments representing a degree of relevancy between said document group and said used word.

17. (Cancelled)

18. (currently amended) A search processing apparatus, comprising:

a non-transitory storage device that stores a predetermined document group;

a search unit that searches said predetermined document group according to a first search condition specified by a user to extract data of a plurality of documents as extracted document from said storage;

a first transformer that transforms said extracted data of said plurality of documents into first display information that indicates said extracted data of said plurality of documents to said user in a first display form that includes including one or more generated displayed display items that are selectable within the first display form by said user by selecting a display region of the one or more display items within the first display form for a follow up search process using a second search condition, are different from menu items and are, which is generated from said extracted data of said plurality of documents, and selectable by said user by selecting a displayed region of the one or more displayed items for in a follow up search process using a second search condition, and outputs the transformed first display information in the first display form;

a receiver that receives from said user designation of a second display form different from said first display form;

an extractor that extracts data of documents corresponding to said selected generated display item from said storage and/or from said data extracted of said plurality of documents; and

a second transformer that transforms said extracted data of said documents

corresponding to said selected generated-display item as extracted selected data into second display information that indicates said extracted selected data to said user in a second user designated display form that includes one or more generated-displayed items selectable by said user by selecting a displayed region of the one or more displayed items for a follow up search process using a third search condition, and outputs the second transformed information in the second user designated display form,

wherein said first and second display forms are selectable from display forms comprising:

a first form as a document map showing indications of the extracted documents that have been classified by used words in said extracted documents,

a second form as a document flow showing indications of said extracted documents, and segments between the indications, each said segment representing a degree of relevancy between said extracted documents, that is calculated by used words in said extracted documents,

a third form showing a graph representing a result obtained by classifying and aggregating said extracted documents based on used words in said extracted documents;

a fourth form as a skeleton map showing used words in said extracted documents and segments representing a degree of relevancy among said used words,

a fifth form as an anchor map showing first indications of document groups, second indications of used words in said extracted documents, and segments between said first indications and said second indications, said document group being composed of said extracted documents associated by a specific matter, and each of said segments representing a degree of relevancy between said document group and said used word.

19-22. (Cancelled)

23. (NEW) The method according to claim 1, wherein said first and second display forms are selectable from display forms comprising:

a first form as a document map showing indications of the extracted documents that have been classified by used words in said extracted documents,

a second form as a document flow showing indications of said extracted documents, and segments between the indications, each said segment representing a degree of relevancy between said extracted documents, that is calculated by used words in said extracted documents,

a third form showing a graph representing a result obtained by classifying and

aggregating said extracted documents based on used words in said extracted documents;

a fourth form as a skeleton map showing used words in said extracted documents and segments representing a degree of relevancy among said used words,

a fifth form as an anchor map showing first indications of document groups, second indications of used words in said extracted documents, and segments between said first indications and said second indications, said document group being composed of said extracted documents associated by a specific matter, and each of said segments representing a degree of relevancy between said document group and said used word.

24. (NEW) The non-transitory computer readable medium according to claim 16, wherein said first and second display forms are selectable from display forms comprising:

a first form as a document map showing indications of the extracted documents that have been classified by used words in said extracted documents,

a second form as a document flow showing indications of said extracted documents, and segments between the indications, each said segment representing a degree of relevancy between said extracted documents, that is calculated by used words in said extracted documents,

a third form showing a graph representing a result obtained by classifying and aggregating said extracted documents based on used words in said extracted documents;

a fourth form as a skeleton map showing used words in said extracted documents and segments representing a degree of relevancy among said used words,

a fifth form as an anchor map showing first indications of document groups, second indications of used words in said extracted documents, and segments between said first indications and said second indications, said document group being composed of said extracted documents associated by a specific matter, and each of said segments representing a degree of relevancy between said document group and said used word.

25. (NEW) The apparatus according to claim 18, wherein said first and second display forms are selectable from display forms comprising:

a first form as a document map showing indications of the extracted documents that have been classified by used words in said extracted documents,

a second form as a document flow showing indications of said extracted documents, and segments between the indications, each said segment representing a degree of relevancy between said extracted documents, that is calculated by used words in said extracted

documents,

a third form showing a graph representing a result obtained by classifying and aggregating said extracted documents based on used words in said extracted documents;

a fourth form as a skeleton map showing used words in said extracted documents and segments representing a degree of relevancy among said used words,

a fifth form as an anchor map showing first indications of document groups, second indications of used words in said extracted documents, and segments between said first indications and said second indications, said document group being composed of said extracted documents associated by a specific matter, and each of said segments representing a degree of relevancy between said document group and said used word.